

Product Name: CEP 1347

Catalog No.: 4924

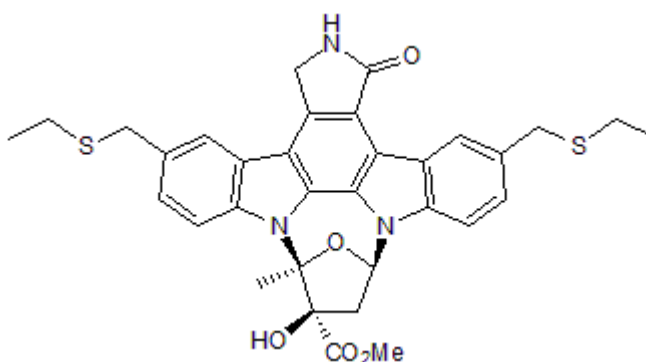
Batch No.: 1

CAS Number: 156177-65-0

IUPAC Name: (9*S*,10*R*,12*R*)-5-16-Bis[(ethylthio)methyl]-2,3,9,10,11,12-hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1*H*-diindolo[1,2,3-*fg*:3',2',1'-*k*]pyrrolo[3,4-*l*][1,6]benzodiazocine-10-carboxylic acid methyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₃H₃₃N₃O₅S₂·³/₄H₂O
Batch Molecular Weight: 629.27
Physical Appearance: Pale yellow Powder
Solubility: DMSO to 10 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.68 (Dichloromethane:Methanol [9:1])
HPLC: Shows >97.4% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.99	5.53	6.68
Found	62.71	5.5	6.71

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
 USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®

Product Name: CEP 1347

Catalog No.: 4924

Batch No.: 1

CAS Number: 156177-65-0

IUPAC Name: (9S,10R,12R)-5-16-Bis[(ethylthio)methyl]-2,3,9,10,11,12-hexahydro-10-hydroxy-9-methyl-1-oxo-9,12-epoxy-1H-diindolo[1,2,3-fg:3',2',1'-kl]pyrrolo[3,4-*l*][1,6]benzodiazocine-10-carboxylic acid methyl ester

Description:

Inhibitor of c-jun N-terminal kinase (JNK) signaling. Rescues motoneurons undergoing apoptosis ($EC_{50} = 20$ nM). Blocks A β -induced cortical neuron apoptosis ($EC_{50} \sim 51$ nM). Does not inhibit ERK1 activity. Neuroprotective.

Physical and Chemical Properties:

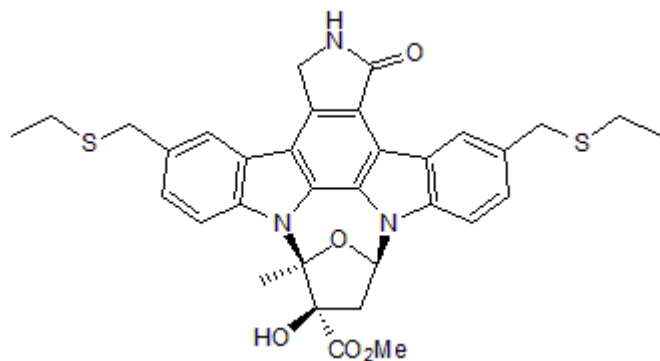
Batch Molecular Formula: C₃₃H₃₃N₃O₅S₂· $\frac{3}{4}$ H₂O

Batch Molecular Weight: 629.27

Physical Appearance: Pale yellow Powder

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 10 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Maroney et al (1998) Motoneuron apoptosis is blocked by CEP-1347 (KT 7515), a novel inhibitor of the JNK signaling pathway. *J.Neurosci.* **18** (1) 104. PMID: 9412490.

Saporito et al (1998) Preservation of cholinergic activity and prevention of neuron death by CEP-1347/KT-7515 following excitotoxic injury of the nucleus basalis magnocellularis. *Neuroscience* **86** (2) 461. PMID: 9881861.

Bozyczko-Coyne et al (2001) CEP-1347/KT-7515, an inhibitor of SAPK/JNK pathway activation, promotes survival and blocks multiple events associated with Abeta-induced cortical neuron apoptosis. *J.Neurochem.* **77** 849. PMID: 11331414.

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

Tocris Bioscience is an R&D Systems company
USA & CANADA Tel: (800) 343-7475 EUROPE Tel: +44 (0)1235 529449 CHINA Tel: +86 (21) 52380373
www.RnDSystems.com

R&D
SYSTEMS®